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### (54) MOISTURE-CONDITIONING POLYESTER-BASED ELASTIC SYNTHETIC FIBER

#### (57)Abstract:

**PURPOSE:** To obtain a moisture-conditioning polyester-based elastic synthetic fiber, available from a polyester hard segment, a soft segment such as a polyether-ester and a fine granular silica gel and useful as a material fiber capable of providing moderate perspiration absorbing properties, comfortableness to wear or refreshing feeling in bed, etc.

**CONSTITUTION:** This synthetic fiber is obtained by melt spinning a mixed composition comprising a polyester (hard segment) containing a recurring unit of the formula [(m) is an integer of 2-6] as a main recurring unit, a polyether-ester and/or an aliphatic polyester (soft segment) containing a polyalkylene ether terephthalate as a main recurring unit and a fine granular silica gel. Thereby, a part or all of the surface of the fine granular silica gel is embedded in the fiber and surely held in the state therein and the fiber has both characteristics of moisture absorption and desorption.



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